Appl. No.

: 10/719,532

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## IN THE CLAIMS

1. (Currently Amended) A pharmaceutical formulation for treating allergies or asthma increasing blood serum levels of Immunoglobulin E levels (IgE) in a mammal comprising:

at least one helminth-based antigen,

wherein said helminth-based antigen comprises a protein of at least approximately 50,000 molecular weight obtained or derived from a species helminth selected from the group consisting of one or more of the following: Capillaria hepatica and Dicrocoelium dendriticum,

wherein said helminth-based antigen increases said mammal's blood serum levels of Immunoglobulin E levels (IgE) to greater than about 3,000 IU/ml thereby ameliorating the allergic reaction of said mammal to a plurality of antigens.

- 2. (Previously presented) The formulation of Claim 1, further comprising at least one pharmaceutically acceptable compound selected from the group consisting of one or more of the following: adjuvants, carriers and diluents.
  - 3. (Canceled)
  - 4. (Canceled)
  - 5. (Canceled)
  - 6. (Canceled)
- 7. (Withdrawn) A pharmaceutical formulation for treating allergies or asthma in a mammal comprising at least one helminth-based antigen wherein said helminth-based antigen comprises an effective amount of a nucleic acid molecule encoding at least one epitope of a helminthic organism, wherein said helminthic organism is selected from the group consisting of one or more of the following: *Capillaria hepatica* and *Dicrocoelium dendriticum*.
- 8. (Previously presented) The formulation of Claim 1, wherein said protein is recombinant.
- 9. (Withdrawn) The formulation of Claim 1, wherein said helminth-based agent comprises an antibody directed to at least one epitope of a helminthic antigen.

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10. (Withdrawn) The formulation of Claim 9, wherein said antibody comprises a monoclonal antibody.

- 11. (Previously Presented) The formulation of Claim 1, wherein said pharmaceutical formulation comprises a form selected from the group consisting of one or more of the following: injectable fluids, suppositories, powder, tablets, capsules, syrups, suspensions, liquids and elixirs.
- 12. (Previously presented) An extract for treating allergies or asthma in a mammal comprising the pharmaceutical formulation of Claim 1 in an amount sufficient to regulate IgE.
- 13. (Withdrawn) A method of preventing or treating allergies or asthma in a mammal comprising administering a therapeutically effective dose of the pharmaceutical formulation of Claim 1 to said mammal.
- 14. (Withdrawn) The method of Claim 13, wherein said pharmaceutical formulation is administered by a route which results in systemic absorption of an immunogenic amount of said pharmaceutical formulation.
- 15. (Withdrawn) The method of Claim 13, wherein said pharmaceutical formulation is administered intradermally, intravenously, orally or rectally.
- 16. (Withdrawn) A method of immunizing a human against IgE-regulated allergic reactions by administering an effective dose of the pharmaceutical formulation of Claim 1 to said human.
- 17. (Withdrawn) The method of Claim 13, wherein said human is less than one year old.
- 18. (Withdrawn) The method of Claim 13, wherein said administering occurs within two weeks after birth.
- 19. (Withdrawn) A method of relieving the symptoms of allergy in a mammal comprising administering a therapeutically effective dose of the pharmaceutical formulation of Claim 1 to said mammal when experiencing said symptoms
- 20. (Withdrawn) A method of competitively inhibiting allergen-specific IgE in a mammal comprising administering a therapeutically effective dose of the pharmaceutical formulation of Claim 1 to said mammal.

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21.(Withdrawn) The method of Claim 16, further comprising measuring total serum IgE levels and serum levels of IgE specific to allergens.

- 22.(Withdrawn) The method of Claim 21, wherein said measuring is performed by ELISA or enzyme-linked immunosorbent assay testing.
- 23. (Withdrawn) The method of Claim 16, wherein said therapeutically effective dose of the pharmaceutical formulation is determined by measuring said mammal's IgE levels and administering a dose sufficient to provide a desired level, wherein said desired level is greater than about 1500 IU/ml.
- 24. (Withdrawn) The method of Claim 23, wherein said desired level is about 3000 IU/ml.